中国云南印白蚁属、华白蚁属两新种

(等翅目: 白蚁科)

蔡邦华 黄复生

朱世模

1.1.

(中國科学院动物研究所)

(中国科学院昆明动物研究所)

1960年 Roonwal, M. L.与Sen-Sarma, P. K.在缅甸中部 Maymyo 发现印白蚁属 Indotermes, 模式种为 Indotermes maymensis。1975年, Akhtar, M. S. 发表 I.arshadi及I. bangladeshiensis, 1963年蔡邦华、陈宁生发表的等齿笨白蚁 Eurytermes isodentatus Tsai et Chen, 1965年经Ahmad, M. 订正为等齿印白蚁 Indotermes isodentatus (Tsai et Chen), 因此印白蚁属有 4个已知种。

1981年何秀松、夏凱龄在我国海南岛海口市发现海南华白蚁(海南华戲) Sinotermes hainanensis, 建立华白蚁属(华蟹属), 并将Ahmad, M.斯定名的 I. thailandis 归入华白蚁属, 更名Sinotermes thailandis (Ahmad)。同年并发表新种云南华白蚁(云南华鹭) Sinotermes yunnanensis He et Xia。

作者于1982年在云南路西县动戛海拔1,375—1,380m的阔叶灌木混交林和松林山坡 所采的标本中,有2个新种分别属于印白蚁属和华白蚁属。

勐戛印白蚁Indotermes menggarensis Tsai et Zhu,新种

兵蚁 (图1-6)

头部黄褐色。上颚基部黄褐色,内缘齿至端齿赤褐色。上唇和触角浅黄色。前胸背板略淡于头色。足线黄色。头部密布稀疏细毛。上唇由前端至唇基部有数对长毛。上颚基部有短毛。后颗布短毛,其前半部散生长毛。胸、腹部除短毛外尚有许多长毛。

体形中等,头较大,头长略大于头宽,头前端上颚基部略狭,向后逐渐宽大,最宽处在头中部后方,侧面观头之背面最高处位于头近后端,后侧角宽圆,后缘微呈弧形,头背部前衰 1/3 有钱色聚纹。上唇舌状,两侧近平行,端部略狭,顶端较宽圆,有透明边缘。上颚粗壮,基部特别扁宽,内缘齿至齿端显著缩狭,在上颚外侧塞部至中段有两个波浪状隆起,其内缘近中部有 1 个三角形缘齿,齿端斜伸向前方;右上颚内缘与左上颚相对应处亦有 1 个三角形缘齿,齿端斜向内方。触角细长,14节,第 2 节略 短 于 第

本文1983年3月31日收到,1984年1月9日收到修改稿。

3节,第3节等于第4节。后颏宽短较平,最狭处约位于中部。

前**胸背板**前叶长半椭圆形,垂直竖立于后叶,前叶与后叶交接处极度凹入,后叶宽于前叶,其后缘中央稍凹陷。胫节距为2:2:2。跗节 3 节。

·兵	蚁	度	(臺	米)

	-						7.50	-		-	•			
英	长	连	Ł	颚	3.75	, 3.57	•	右.	上野	樂技	至	世	0.54,	0.50
头	长	至	聂	基	2.39	, 2.36		后	, *	類		长	1.18,	0.89
头	宽	(陌	基)	1.87	, 1.89		后	皴		最	変	0.57,	0.57
类		最		窓	2.21	, 2.25		后	颊		最	狭	0.39,	0.46
左	Ŀ		抲	长	1.32	, 1.39		前	胸	背	板	长	0.79,	0.75
左.	上颚	缘齿	至	出出	0.50	, 0.54		前	胸	背	板	寬	1.04,	1.00
右	Ŀ		Ħ	长	1.29	, 1.29		后	足	胫	书	长	2.00,	2.14

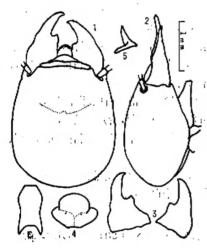


图1-6 勃戛印白蚁Indotermes menggarensis Tsai et Zhu, 新种

> 兵蚁: 1.头部正面观; 2.头部侧面观; 3.上颚; 4.前胸背板; 5.前胸背 板侧面观; 6.后颏

比较:本新种兵权与云南怒江坝 (海拔955m下同)、景洪(590m)、金平(390m)等地所采的等齿印白蚁 Indotermes isodentatus (Tsai et Chen)相比,有下列区别: 1.新种头形前狭后宽 (头长:头宽=1.07:1),对比种头长甚大于头宽 (头长:头宽=1.26:1),头两侧几乎平行,2.前胸背板前叶两侧几垂直,与后叶交接处明显内凹,对比种之前、后叶两侧交接处成弧形内凹。

模式产地,云南省潞西县动戛,海拔1,375m。采集人:朱世模、龙勇诚,1982, X,14,标本编号:82 X 140212。

寄主。飼叶灌木混交林山坡草地土下楼居。

模式标本,正模,兵蚁,保存于中国科学院昆明动物研究所,副模,兵蚁1头,工蚁12头,有翅岩蚁78头,分别保存于中国科学院动物研究所和中国科学院 昆 明 动物研究所。

潞西华白蚁Sinotermes luxiensis Huang et Zhu, 新种 a for the last of the second

4.5

兵蚁 (图 7 -12)

- 头部棕褐色。上颚基部黄褐色,上颚中部至端齿赤褐色。上唇及触角浅黄色。前胸背 板同头色。足浅黄色。头部密布细毛,间布稀疏长毛。上唇具少数长毛。上颚基部具短毛。 间杂以长毛。后须着生短毛,前段间布少数长毛。胸、腹部除短毛外,尚有许多长毛。

体形中等,头较大、头长略大压头宽,头两侧近似平行,最宽处约位于头中都之后, 最高处位于头之中部,后侧角宽圆,头后缘近平直,头背面的纵缝由后缘中央向前伸长 至头的1/3处,头背面中央前部有浅色斑纹。上唇舌状,两侧近平行,前端略狭圆、具透 明边缘。上颚十分粗壮,基部扁宽膨大,外缘有明显波状隆起。左上颚内缘近中部有1 个钝形缘齿,齿端朝向内方,齿端前缘平直,缘齿的侧缘孤状突出;右上颚内缘中部有 1个三角形缘齿, 齿端斜向内方。触角细长, 14节, 第3节长于第2节、等于或略长于 第 4 节。后颏较狭长,其最狭部位在后颏的后半部,最宽处的宽度近似最狭处的 2 倍。

前胸背板马鞍形,前叶垂直竖立于后叶,前叶的前缘狭圆,侧缘与后缘相接处呈弧 状凹入,后叶的后缘中央微凹入。胫节距2:2:2。跗节3节。

	大 双	里 歧	(電 木)		
头长连上颚	3.43-3.75	3.63	右上颚線齿至齿端	0.50-0.61	0.56
头长 (至 顆 基)	2.46-2.61	2.54	后 類 长	1.25-1.39	1.31
头 宽(颚 基)	1.93-2.11	2.03	后频量宽	0.50-0.57	0.54
头 股 寬	2.14-2.29	2.20	后類最終	0.29-0.32	0.30
左上暫长	1.18-1.25	1.22	前胸脊板长	0.71-0.82	0.77
左上颚缘齿至齿端	0.46-0.54	0.49	前胸背板宽	1.00-1.11	1.05
右上颚长	1.14-1.21	1.19	后足胫节长	1.82-2.04	1.95

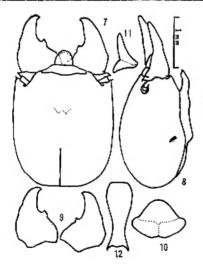


图 7-12 踏西华白蚁Sinotermes luxiensis Huang et Zhu, 新种

兵蚁: 7.头部正面观; 8.头部侧面观; 9.上辑: 10.前胸背板: 11.前胸背板侧面 观; 12.后颖

比较,本新种兵蚁与何秀松、夏凯龄于云南景洪 (海拔550m左右) 所采新种云南 华白蚁 (云南华暨), Sinotermes yunnanensis兵蚁较近似, 其主要区别为: 1.头宽略小 于对比种, 2.前胸背板前叶之前缘中央不突出, 呈狭圆状, 3.触角14节与已知种不同, 4.后颏较狭长与已知种不同; 5.前胸背板较短宽。

模式产地,云南省路西县勐戛,海拔1,380m。采集人,朱世模、龙勇诚,1982, X.13, 标本编号, 82 X 130204.

寄主三松林山坡草地土下深30-40cm楼居。

」模式标本,正模,兵蚁,保存于中国科学院昆明动物研究所,副模: 兵蚁10头,工 蚁20头,有翅岩蚁35头,分别保存于中国科学院动物研究所和中国科学院昆 明 动 物 研 究所。

F.

Section . The contract of

TWO NEW SPECIES OF GENERA INDOTERMES AND SINOTERMES FROM YUNNAN, CHINA

(ISOPTERA: TERMITIDAE)

Tsai Pang-hwal Huang Fusheng

Zhu Shimo

(Institute of Zoology, Academia Sinica)

(Kunming Institute of Zoology, Academia Sinica)

In October 1982, two new species were collected from Menggar at an altitude of 1,375-1,380 m, of Luxi county, southwest of Yunnan Province.

Indotermes menggarensis, Tsai et Zhu, sp. nov.

Soldier (Fig. 1—6) ——Head yellowish brown, thoracic and abdomen tergites brown. Head covered with a dense mat of short hairs and a few scattered long bristles, labrum with a few short hairs and scattered long bristles, mandibles with a few hairs at base, abdominal tergites and sternites densely hairy.

Body middle—sized. Head larger, width slightly shorter than length, exclusive mandibles, head capsule seen in profile raised near posterior end, lateral sides somewhat bulging near posterior end, posterior margin slightly convex, W—suture visible, labrum tongue—shaped, sides parallel. Mandibles stoutly built, tips slightly incurved; bases swollen with outer margin humped, anterior half attenuated; inner margin with a distinct broad tooth placed almost in middle. Postmentum comparatively shorts, flat, widest in anterior half. Antennae with 14 articles, second slightly shorter than the third, the third as long as the fourth. Pronotum strongly saddle—shaped, anterior lobe longer than posterior, anterior margin convex, posterior margin slightly depressed in middle.

Tibial spurs 2:2:2. Tarsi 3-segmented.

Comparisons. The soldier of Indotermes, menggurensis, Tsaiet Zhu, sp. nov. differs from that of I. isodentatus (Tsaiet Chen) as follows, width of head at side base of mandibles narrower than posterior end. In I. isodentatus (Tsai et Chen), lateral sides of head almost parallel, postero—lateral sides of pronotum strongly concave, marginal tooth with tip laterally directed.

Type locality: Luxi county, Yunnan Province, soldiers (holotype and Paratype), workers, collected by Zhu Shi-mo and Long Yong-cheng, October

14, 1982. Vial number, 82 X 140212.

Holotype: Soldier, deposited in Kunming Institute of Zoology, Academia Sinica.

Paratype, deposited in Kunming Institute of Zoology, Academia Sinica and Institute of Zoology, Academia Sinica,

Sinotermes luxiensis, Huang et Zhu, sp. nov.

Soldier (Fig. 7—12) — Head capsule castaneous brown, labrum brownish yellow, mandibles reddish brown in apical half, slightly lighter in basal half, antennae light yellow, Pronotum castaneous brown, legs light yellow. Head densely hairy, with short hairs and scattered long bristles, labrum with a few short hairs and long bristles. Head subrectangular, slightly wider posteriorly, posterior margin almost straingt, postero-lateral corners broadly rounded, labrum tongue-shaped. Mandibles stoutly built, each of the mandibles with a broad tooth almost in middle, which is laterally directed. Antennae with 14 articles, the third longer than the second, and equally or slightly longer than the fourth. Postmentum comparatively long, widest in the anterior half nearly two times as long as the narrowest width in the posterior half. Pronotum much narrower than head, strongly saddle—shaped, the raised anterior lobe longer than the posterior, posterior margin slightly concave in middle.

Tibial spurs 2:2:2. Tarsi 3-segmented.

Comparisons. The soldier of Sinotermes luxiensis, Huang et Zhu, sp. nov. closely resembles S. yunnumensis, He et Xia, but they are different by some characteristics, 1. Width of head of the former slightly narrower than that of the latter, S. yunnumensis, 2. Anterior lobe of pronotum of the former narrowly rounded apically, but the latter slight straight.

Type locality, Luxi county, Yunnan Province, soldiers (holotype and paratype), workers, collected by Zhu Shi-mo and Long Yong-cheng, October 13, 1982. Vial number, 82 X 130204.

Holotype, Soldier, deposited in Kunming Institute of Zoology, Academia Sinica.

Paratype, deposited in Kunming Institute of Zoology, Academia Sinica and Institute of Zoology, Academia Sinica,

Institute of Zoology, Academia Sinica.

 1.25 ± 4 cm. Fig. . For 1.25 ± 4 cm. 1.25 ± 4 cm. 1.25 ± 4 cm. 1.25 ± 4

 $(x, \alpha, \alpha, \beta) = (x, \beta) \cdot (x, \alpha) \cdot (x, \beta) \cdot (x,$